© 1991 COPYRIGHT BY
DATA PROCESSING DIGEST, INC.

Data Processing Digest

3848 FREDONIA DRIVE, • LOS ANGELES, CALIFORNIA • 90068

PUBLISHED EACH MONTH SINCE 1955

VOLUME 37, 1991

1991 ANNUAL SUPPLEMENT

INDEX AND REFERENCE LIST

Title Index 1
Author Index 4
Subject Index 7
References 10

INDEX

This is the annual index for DATA PROCESSING DIGEST for the year 1991, Vol. 37, Nos. 1-12. The index is divided into three sections: the list of titles as they appeared in the Digest, a list of authors, and a subject index. All articles have at least one subject citation. Italicized titles are books, periodicals or reports. The numbers following the entries indicate issue and pages in which the item is found. The number preceding the hyphen is the issue; the numbers following the hyphen are the pages.

TITLE

Access Control Software: What It Will and Will Not Do, 5-2
Action Programmes For Teaching and Researching In Information Systems, 11-23
Ada Language Poses Threat To Security, 10-19
Advanced Automation: The Key To Datacenter Survival in the 1990s, 8-20
Age Of the Information Server, 9-7
AI (Quietly) Goes Mainstream, 10-25
AI—When Is Smart Not Smart For Development, 1-8
Analyzing a Team's Dynamics Before Hiring the Team, 6-26
Application Development: Coming Soon To a PC Near You, 5-16
Applied Software Measurement: The Software Industry Starts To Mature, 8-10
Appraising MIS Personnel: Techniques To Make It Work In Your Organization, 3-5
Approaches To Auditing Your Data Community Networks, 6-21
Are Retailers Sold On Expert Systems?, 7-24
Are You Really Independent?, 12-4
Are You Training the Wrong People?, 7-26
Are Your Lights On?, 11-27
ASDM: The Universal Systems Development Methodology, 5-19
Auditing the IBM AS/400: The Johnson & Johnson Automated Approach, 10-19
Auditing the Lights-Out Operation Facility, 5-3
Automating the Help Desk, 3-4
Automating Network Management, 10-1
The Automation Imperative, 6-28
Automation: Providing Career Inroads, Not Dead-Ends, 6-28
Avoiding Legal Gray Areas, 1-26
Avoiding the PC Maintenance Blues, 8-19

Back To Basics, 2-8
Backing Up a Communications Network: A Case Study, 5-2
Beating the Spy Game, 2-20
Beyond MRP II: The Enterprise Solution, 5-23
Breaking the Software Logjam, 1-12
Bringing It Back Home, 3-1
Broadband Video: Building Applications In the Network, 12-21
Building a Global IT (Information Technology) Infrastructure, 9-30
Building the Perfect Beast, 6-3
Business Measurement and the Measurement Business, 9-15

Can CA Outclass IBM's SystemView?, 8-22
Can EDI Be Trusted? Endangered Data Interchange, 1-16
Can Formal Methods Be User-Friendly?, 7-8
Can One Network Do It All?, 7-17
Can Your Vendor Make the Connection?, 5-22
Capacity Management: What Is the Future?, 2-22
CASE Culture Shock, 11-9
CASE and Distributed Computing Environments, 9-4
The Case For CASE In Cooperative Processing, 10-10
Case Study: Building an EIS, 3-12
CASE Training and the End User, 1-24
Chargeback: Concepts Of Data Center Cost Recovery, 10-11
A Cheaper Way To Print, 7-21
CIM: Are We There Yet?, 10-25
A CIO's Primer On Voice Response Technology, 9-19
Cleanroom Engineering: Engineering Software Under Statistical Quality Control, 7-9
Climbing the New IS Corporate Ladder, 10-17
Code-Style Prescriptions, 11-13
Cognitive Approach To Systems Engineering and Re-Engineering: Integrating New Designs With Old Systems, 1-4
Cognitive Tools and Computer-Aided Writing, 1-26
Combining Bar Coding and Image Processing For Document Processing, 12-24
The Coming Competition In PC Support, 2-8
A Communications Primer, 7-6
The Complexity Of "Long Haul" Data Communication Security, 2-17
Computer Ethics: Cautionary Tales and Ethical Dilemmas In Computing, 3-26
The Computer For the 21st Century, 11-26

Computer-Integrated Manufacturing Moves Forward, 1-24
Computer Networks and Distributed Systems, 12-20
The Computer Security Officer, 12-2
Computers and Architecture, 4-15
Computers At Risk: Safe Computing In the Information Age, 12-26
Computers, Networks and the Corporation, 11-22
Computers, Networks and Work, 11-21
Computers and Visual Stress, 3-24
Computing Centers Undermine MVS Security, 9-27
Configuration Management: How Much Do You Need?, 1-15
Consolidating Multiple Data Centers, 2-5
Consultant Engagement For Computer System Selection, 5-5
Contingency Planning—More Complex (and Necessary) Than Ever, 7-15
Continuous System Availability, 1-15
Contract Programmers: For Fast Temporary Relief, 12-10
Controlling Costs—The Runaway Train, 5-6
Controlling EDI, 11-18
The Corporate Make-Over, 3-2
Creating Courseware For the Long Haul, 9-24
A Critical Analysis Of the Cleanroom Technique, 12-13
Customer Care, 5-26

Data Base Cathedrals, 11-11
Data Conversion: A Database-Driven Approach, 6-6
Data Obsolescence: A Reappraisal, 10-7
Data Retention and the IRS, 4-10
Data Tools, 8-4
Dawn Of a New Object-Oriented Age?, 4-5
DB2 Performance: Yesterday's War?, 7-25
Dealing With Domain Tables, 6-7
Decentralize and Outsource: Dial's Approach To MIS Improvement, 11-5
Decentralizing HR Software, 10-22
The Decision, 12-7
Decision-Making Prowess, 5-5
Denny's POS Effort, 9-10
Determining Your Information System's Vulnerability To Viruses, 7-16
Developing Multimedia Applications, 9-18
A Diagnostic Approach To Information Management Problems In the Organization, 7-2
Digital Research Builds a Better DOS, 6-24
Disseminating Information, 2-7
Distributed DBMS Decisions, 7-5
The Distributed Melting Pot, 7-3
Distributed X.25 Networking: Toward Efficient Operations, 10-3
"Do-It-Yourself" Cryptography, 2-20
Do You Need a Dedicated PC Manager?, 6-17
Downtime Processing, 12-9

The Economic Value Of Capacity Planning, 3-14
Economics of Software Re-engineering, 12-11
EDI: A Critical Link In Customer Responsiveness, 3-16
EDI, EDA, and Trusted Parties, 7-20
EDI Goes International, 3-17
EDI Security, 5-2
An EIS For the Desktop, 7-21
The Elusive Silver Lining: How We Fail To Learn From Software Development Failures, 2-14
Embracing the Inevitable, 11-14
The Emerging World Of Multimedia, 5-24
End-User Training: Needs Improvement, 6-18
Enterprise Computing For World Class Manufacturing, 1-23
The Entrepreneurial Datacenter: A Product Management Approach, 10-16
An Essay On Responsibility For Security Information Resources, 9-26
Establishing an Information Technology Audit Development Center (ITADC), 6-22
Evaluate, Don't Procrastinate, 4-10
Evaluating CASE Tools: Guidelines For Comparison, 9-3
Evaluating Instructors, 8-20
Examining the AS/400: Part 1, 6-26
Expert Opinion, 4-12
Expert Systems: Promises and Pitfalls, 4-12
Exploring CTOS, 7-27
Extending Data Recovery, 10-4

Facilitated Data Modeling: Data Analyst As Facilitator, 8-6
Facing the PC Buying Task, 1-19
Fear Of Prying, 9-26
Fiber Optic Sensors Grow Into Networks, 5-23
15 Solutions For Healthy LANs, 3-18
Five Ways To Strengthen UNIX Security Today, 12-4
Formal Methods, 7-6
Formal Methods vs. Heuristics: Clarifying a Controversy, 5-18
Four Rules For Downsizing Databases, 6-16
Four Spheres Of Software Testing Reality, 8-2
From Art To Science In Material Handling, 3-22
The Future Of RPG, 3-16
The Future Of Operating Systems, 11-13
Fuzzy Logic Clarified, 5-18

Get the Lease With the Most, 8-17
Getting the Most From Vendor Support, 3-4
Getting the Process Right, 9-5
The Gold We've Failed To Mine, 8-9
Group Decision Support Systems, 10-16
Group Dynamics, 11-12

"Hackers": Know the Adversary, 11-16
Halon vs. Ozone: Regulation, Recycling, Re-Use and Options, 1-25
A Healthy Pessimism, 9-27
Here Come the Hybrids, 8-16
High-Availability Computer Systems, 12-24
High-Performance Computing, 7-22
Home Sweet Office, 9-20
How Expert Systems Make Farming Easier, 4-13
How To Design LANs With Modeling & Simulation, 2-25
How To Evaluate a Vendor's Repository Enablement, 2-12
How To Keep a Migration Project On Course, 12-8
How To Plan, Develop & Use Information Systems: A Guide To Human Qualities and Productivity, 3-25
How To Prevent Network Heart Attacks, 10-3
How To Prevent the Use Of Weak Passwords, 6-23
Human Interoperability: Of Duels and Duets, 12-6

IBM Launches OS/2 2.0, 8-24
An Idea Whose Time Has Come, 1-7
Identifying and Qualifying Reusable Software Components, 5-11
Imaging: How To Invest In the Hottest New Technology Without Getting Burned, 7-23
Impacts Of Life Cycle Models On Software, 10-8
Improve It Or Lose It, 7-2
Improve Software Quality, 9-12
Improving the IS Image, 3-3
Improving Performance, 2-22
In Search Of the True Cost Of CASE, 10-10
Information Engineering, 12-16
Information Engineering Styles In Conflict, 6-4
Information Partnerships—Shared Data, Shared Scale, 1-20
Inside Risks: The Clock Grows At Midnight, 3-13
Intelligent LAN Management With Novel NetWare, 3-25
Interactive Systems: Bridging the Gaps Between Developers and Users, 7-10
International Security Foundation Starts Up, 12-3
International UNIX, 2-23
Inventory Your LAN—Automatically!, 10-20
IS Architecture Artistry, 10-13
IS Cost Reduction: A Matter Of Survival, 11-3
IS Without Managers, 11-6
Is Imaging Right For Your Business?, 9-23
Is Accounting Standing In the Way Of Flexible Computer-Integrated Manufacturing?, 3-20
Is Technology Worth It?, 7-1
Is There an Executive Information System In Your Future?, 1-21

Keeping the Best and Brightest, 10-13
Keeping the DB2 Datacenter Afloat: An Application Tuning Perspective, 7-26
Key Issues In Information Management: An International Perspective, 8-16
Knock, Knock—It's IS Calling, 12-4

Law and Disorder, 7-4
Learning From Experience, 9-20
Learning Through Multimedia, 10-23
Legal Writes, 9-28
Like a Version, 10-9
Lilac: A Two-View Document Editor, 10-21
Linking Databases: Many Paths, 8-7
Listening To Customers, 3-3
The Literate-Programming Paradigm, 9-12
Logically Connected, 1-7
Looking At LANs, 4-12
Looking Forward To Better Archiving, 9-8

Maintenance Magic, 1-6
Making the Case For Data Center Automation, 6-27
Making EDI Auditable, 3-17
Making Usable, Useful, Productivity-Enhancing Computer Applications, 3-10
Making Workstations Work: The Options, 2-25
The Management Information Center, 1-17
A Manager's Guide, 4-1
Managing the Distributed Environment, 11-2
Managing Maintenance—The 4,000 Pound Gorilla, 5-12
Measuring Programmer Productivity, 11-10
Message To Federal IS Execs: Time To Think Downsizing, 11-4
Methods For Documenting Controls and Security Provisions, 12-3
Micro Computer Training Trends, 12-23
Micro Evolution, 7-17
Microsoft's Client/Server Challenger, 9-31
Misuse Of Power, 4-11
More Attention Needs To Be Paid To Insider Computer Criminals, 5-1
More Users Are Putting ISDN To Work and Fitting It Into Their Planning, 10-3
Multi-Media Databases, 2-26
Multimedia: Real, Not Vapourware, 10-24
Multimedia Training: The Wave Of the Future, 12-23

NCR Launches Electronic Notepad, 11-24
NCSA News, 5-26
Network Management Systems: Tools Or Toys?, 10-2
Network Transparency, 2-23
Networking Made EC, 11-18
Networking's World Beaters, 1-17
Networks, 11-19
A New Approach To Managing Information System Expenditures, 9-21
New CAD Breed, 8-27
New DBMS Tricks, Techniques and Technologies, 3-13
The New England's World-Class Life, 9-17
A New Look At the Numbers—CASE and 4GLs: What's the Payoff?, 1-3
New Method For a New Era, 10-5
A New Methodology For Successful EIS Implementation, 12-25
New RF Technology Scores First Success, 4-13
New Roles For End-Users In Documentation, 2-15
Next-Generation Database Systems, 12-26
Next-Generation Retailing, 5-17
The 1990s—What Will They Hold?, 2-1
No More Defects!, 9-17
A Novell Use For Minis, 6-25
Nurturing the Help Desk, 11-3

Object Lesson, 7-11
Object Orientation, 10-7
Object-Oriented Data Bases, 12-17
Object-Oriented Database Management Systems: Concepts and Issues, 7-12
Offsetting Human Limits With Debugging Technology, 6-13
On Becoming the Mainstream, 6-10
On the Fast Track To HR Integration, 11-9
The One Minute Methodology, 11-27
Open Season, 11-14
Open Systems Interconnection, 10-4
Open Windows For EIS, 3-15
Opening the Door To Open Systems, 12-14
Organizational Learning: The Key To Software Management Innovation, 8-15
An Ounce Of Prevention, 4-5
Outsourcing Without Guilt, 11-4
An Overview Of Common Benchmarks, 3-15
Ozone Depletion and Halon: Alternatives For Computer Fire Protection, 11-17

Password Expiration, Its Limitations and Alternative Approaches, 11-15
PCs Come Full Circle, 1-19
Peer Pressure, 9-19
People Considerations For a More Successful JAD, 3-9
Performance Measures, 2-21
Performing a Business Impact Analysis, 6-20
The Perils Of Fiber Optic Networks, 5-22
Planning For Recovery: Step By Step, Two By Two, 10-18
Player-Managed Teams Score Very Well, 2-6
Playing "Skill Connection" With IS, 3-5
Plotting the Future, 1-8
Plug Into Affordable Fiber, 8-23
The Power Of Information Systems Planning, 2-2
A Practical Approach To Procedure-Oriented Documentation, 10-11
Practical Knowledge: Creating Commercial Expert Systems, 10-27
Practical LAN Auditing, 5-4
Preparing For AD/Cycle, 2-10
Presenting Information, 9-7
Problem Management Systems, 1-21
The Procedures For Registering Computer Programs In Japan, 9-30
A Process Metrics Approach, 6-9
Products and Services For Computer Networks, 11-25
Progress In Secure Distributed Systems, 11-15
Project Management & Outsourcing, 8-5
Project Proficiency, 9-23
Protecting Computers From Erratic Power, 3-6
Prototyping With CSP, 5-21
Pull Together!, 10-8

Quality In MIS: Misunderstood, Misapplied, and Often Missing!, 1-14
Quality: Toward a Definition, 1-14
The Quest For World Class IT Capability, 10-17

Random Bits & Bytes, 2-16
The Reactive Keyboard: A Predictive Typing Aid, 3-22
The Reality Of AD/Cycle and CASE—Where Is Code Generation?, 11-10
Reaping the Benefits Of Financial EDI, 7-19
A Rebuttal Of "A Critical Analysis Of the Cleanroom Technique," 12-14
Reconciling Change, 10-19
Reconsider the Development Center, 1-18
Recovering & Reusing Software Designs, 5-10
Re-Engineering, 4-6
The Re-Engineering Decision: Lessons From the Best Of Practice, 6-11
Re-Engineering Economics, 5-13
Re-Engineering Existing Systems, 12-12
Refining the Process, 6-14
Reliability Modeling: An Overview For System Designers, 6-5
The Repository: The Soul Of a New Technology?, 2-12
Repository Standards: A Must For CASE Tool Integration, 2-13
Repository Wars, 2-11
Resisting the Next Generation Of Technology: The Problems With Relational Databases, 9-6
Resolving the Eight Key Issues In Network Management Strategic Planning, 12-18
Resource Management: How Two Users Manage the Known, 8-18
Restating the Foundation Of Information Security, 12-1
Retooling the IS Machine for the 1990s, 5-6
Reuse & Reengineering, 5-9
Rightsizing, 6-23
Rightsizing: A New Opportunity, 12-15
RISC: Evaluation and Selection, 5-20
RISCy Business, 7-22
The Rising Value Of Versatility, 2-9
The Role Of Information Systems Auditing In Systems Development, 11-18
RPG On the Desktop, 12-10
The RPM3 Software Measurement Paradigm, 8-13
Rx For Health Costs: A Dose Of IS, 9-10

S/36 Migration Alternatives: The Work-alike Environments, 2-3
SAA, Presentation Manager and COBOL, 10-6
Safe and Secure, 12-19
Search By Natural Association, 5-24
The Second Coming Of AD/Cycle, 1-1
Second-Step Training Issues, 3-6
Security and Control In Electronic Funds Transfer: The SWIFT Case, 7-16
Security and Credibility In an Information-Intensive Society, 2-18
Security Policy, 2-20
Selecting Technical Managers, 6-17
The Seven Questions Of Downsizing, 10-6
Seven Steps For Making Just-In-Time Work, 4-14
Seven Steps To Better Internal Marketing, 12-22
Seven Steps To Successful E-Mail, 11-19
Shape Of the Peg, 7-4
Sharing Systems, 6-19
Should Information Providers Be Liable For the Information They Provide?, 5-25
The Silver Bullet: The Cost-To-Fix Curve(s), 4-4
The Simple Book: An Introduction To Management Of TCP/IP-Based Internets, 3-24
The Simple Solution To Multivendor Networks, 6-25
Six Key Factors In Evaluating Information Security Mechanisms, 8-25
Small Business Reliance On Computer Software: There Should Be Protection, 7-24
Smart Cards For Security: Plastic Armoury, 2-21
The Soft Costs Of LANs Can Hit Hard, 11-23

Software Development Process Maturity, 8-9
Software Maintenance, 6-13
Software Management, 10-14
Software Management Technology: Answering Where, What, and When, 9-13
Software Piecework, 12-15
Software Productivity: What Is Management's Role?, 6-1
Software Reuse—Myth Or Reality, 5-8
Software Reuse Rules Of Thumb, 5-7
Software Speeder-Uppers, 11-7
Software Teams, 1-10
Software Testing—Some Troubling Issues, 6-8
The Software Selection Process Can't Always Go By the Book, 7-10
Soul-Searching: Four Case Studies, 2-10
SQA: A Management Perspective, 1-13
The State Of CASE: Report On the Results Of CASE '90, the Fourth International Workshop On CASE, 5-20
Statistical Process Control, 9-13
Still Up In the Air, 8-22
A Storage and Access Manager For Ill-Structured Data, 10-9
Storage Systems, 11-24
Strategic Database Planning, 1-9
A Strategic New Technology For the Mid-range, 3-14
Strategies For Converting From One IT Environment To Another, 12-5
Strategies For Supporting Application Portability, 2-13
Strength In Numbers, 12-16
A Sunset Law For Systems, 8-18
Survey Of Rapid Prototyping Tools, 5-21
System Quality and Computer Security, 2-20
Systems Application Architecture, 10-21
Systems Integrators, Start Your Engines . . ., 1-5
Systems Transplants Thrive In Business Settings, 2-6

T1 Services and Equipment: Private/Public Mix Stirs Up New Issues, 2-24
Tailoring the Perfect Fit—Software Testing For Extant Systems, 2-15
Taking the Long View Of Barcode Systems, 10-26
Taking Stock Of Software, 11-2
TCP/IP, 12-21
Team Requirements Definition: Looking For a Mouse and Finding an Elephant, 7-9
Teamwork Takes Work, 6-14
Technical Auditing Of MVS Environments, 7-13
Technology-Process Fit: Perspective on Achieving Prototyping Effectiveness, 6-7
Technology Raises Many New Ethics Questions, 12-5
Technology 2001: The Future Of Computing and Communications, 12-27
The 10 Commandments Of RAD, 7-9
Test Manager and Driver Technology, 12-13
Testing Made Palatable, 7-12
Think Like an Object, 12-18
Thinking of Downsizing?, 9-22
Third-Generation Database System Manifesto, 6-2
3-D Simulation: A New Industry Standard, 9-30
3X/400 Leasing, 6-19
To Each Its Own, 6-15
A Tool For Every Backlog, 1-12
Total Change Control: Unconventional, Beneficial, 1-22
A Touch Of Academia, 9-25
Toward Asset-Based IT, 3-2
Toward Usable Interfaces, 4-3
Trailblazing the Client/Server Jungle, 12-6
Transforming Support At the Help Desk, 7-3
Trends In CASE Users & Usage, 9-1
Trends In Corporate Database Applications—Part I, 5-15
Two Cultures: Object-Oriented Programming & Object-Oriented Methodology, 12-16
The Two Faces Of EDI, 1-16
Two Views Of Service: The Digital Approach, 8-24

Understanding the UNIX Operating System, 11-12
Unicode Breaks the ASCII Barrier, 10-23
The Uninterruptible Power Problem, 10-12
Unix Myths Exposed, 4-7
Untangling Spaghetti Code: Straight Talk About Software Reengineering, 12-11
Usability: The Quality Issue Of the 1990s, 4-2
User Involvement Key To Good Documentation, 6-3
User Satisfaction, 11-8
Users Get Serious About Growing Security Risk, 10-18
Using Neural Nets: Hybrid Expert Networks, Part 6, 3-21

VDT Use and Health: One More Piece To the Puzzle, 8-25
The Vendors, 12-8
Videotex In the U.S. In 1991, 12-22
The Voice Of the User, 11-1

Walk, Don't Run, To the AS/400, 2-4
We Have Lost Our Way, 8-1
What Do Users Really Want?, 11-11
What Is RAD?, 3-8
What Makes a Software Measure Successful, 11-8
Where Is CASE Headed?, 1-2
Whiz-Bang Operational Tools For the AS/400, 4-7
Who Needs a Disaster?, 7-15
Who Will Own Your Next Migration?, 2-3
Why Choose Distributed Database?, 6-6
Why Data Communications Are Insecure, 2-16
Why Outsourcing Is In, 6-18
Why You Should Stay in the S/36 Environment, 2-4
Window User Interfaces and Software Maintenance, 9-14
Wiring the Computer Network, 7-18
Work Flow Analysis: A Qualitative Computer Security Risk Assessment Methodology, 8-26
Working Smartest Means Asking the Right Question, 11-23
Worry-Free Integration, 2-10
Worth a Kiloword, 3-7
Writing and Formatting Effective End-User Documentation, 9-9
You Think You've Got Budget Problems?, 9-22
You Too Can Succeed, 6-16

Zen and the Art of Management Reporting, 4-8

AUTHOR

Abdel-Hamid, Tarek K., 2-14, 8-15
Ablondi, William F. Jr., 2-8
Aggelakos, Van H., 12-14
Alavi, Maryam, 10-16
Alexander, Michael, 10-18
Alter, Allan E., 3-2
Ambrosio, Johanna, 2-10
Amon, Elenore M. et al, 3-25
Amsel, Ellen, 12-4
Ances, Carol Anne, 10-11
Anderson, Stephen, 1-25
Anthes, Gary H., 11-4
Arft, Jeanne, 11-10
Assaly, Stephen, 6-22
Avison, D.E., 11-23
Axt, Jeffrey, 12-9

Balga, John T. Jr., 10-14
Balsly, Chuck, 1-12
Banks, Simon, 2-20
Barnes, Geoffrey, 6-13
Barr, Avron, 7-3
Barton, Ronald B., 11-12
Basili, Victor R., 5-11
Beale, Dianne L., 6-17
Beck, Kent, 12-18
Beizer, Boris, 6-10
Benn, Daniel, 11-2
Bersoff, Edward H., 10-8
Bertino, Elisa, 7-12
Betts, Mitch, 9-10
Bianchi, Jeff, 12-10
Biggerstaff, Ted J., 5-10
Binder, Robert V., 9-1
Bishop, John H., 6-14
Black, George, 10-24
Blanton, J. Ellis, 7-16
Bloor, Robin, 10-7
Bodie, John, 8-18
Boies, Stephen J., 3-10
Bolles, Gary A., 3-18
Bologna, Jack, 9-26
Boone, Greg, 1-18, 9-5
Brancheau, James C., 8-16
Brooks, Kenneth P., 10-21
Brown, Hugh, 10-9
Brown, Marcus, 9-12
Brown, Ross, 3-14, 10-25
Brown, Wayne, 9-12
Brownstein, Irv, 7-15
Buckler, Grant, 8-27
Bullock, Martin, 10-13
Burns, Tom, 11-18

Burrows, Bob, 10-3
Butler, Martin, 10-7

Cable, Guy G., 5-5
Caldiera, Gianluigi, 5-11
Candura, Joseph M., 1-4
Cappelli, William, 11-24
Capps, Lee, 12-8
Card, Donald N., 11-8
Carlson, Patricia A., 1-26, 2-26
Carroll, John M., 2-18, 20
Caudill, Maureen, 3-21
Castellano, Joseph P., 9-21
Cattell, R.G.G., 12-26
Cavanaugh, James, 2-25
Cerf, Vinton G., 11-19
Chernick, Aubrey G., 6-28
Chikofsky, Elliot J., 2-11
Childs, Ronald G., 11-19
Christoff, Kurt A., 11-11
Clark, Frederick P., 12-16
Clermont, Paul, 11-4
Cohen, Richard, 10-8
Coleman, D.S., 6-4
Colcman, Samuel B., 2-10
Combs, Kathy, 12-4
Committee for Advanced DBMS Function, 6-2
Connor, John L., 8-20
Constantine, Larry L., 4-3
Cooprider, Jay G., 6-7
Corbin, Darrell S., 7-9
Cordes, David, 9-12
Cox, Earl, 5-18
Craig, Roger A., 10-11
Crawford, Tony, 3-9
Crook, Jim, 7-27
Curtis, Bill, 4-2

Dama, Frank, 2-4
Darragh, John J., 3-22
Davidson, Clive, 2-26
Davis, Alan M., 10-8
Davis, Jack M., 1-8
Davis, Leila, 11-9
Dawson, Mike, 12-10
Decherd, Bill, 6-13
Dedo, Douglas, 12-17
Delaney, Chester, 3-6
Delluomo, Julie, 7-24
Dichter, Carl R., 11-13
Diromauldo, Anthony P., 3-2
Dosdale, Terry, 1-16
Doughty, Ken, 6-20
Dove, John, 9-7
Drake, Kalvin B., 5-19
Duncan, Mark, 1-14, 2-8, 9-15
Dunn, Robert, 1-13
Dunwoody, Craig, 2-22
Durell, William R., 6-7

Elms, Teresa, 2-3, 3-16
Emmett, Arielle, 12-4
Enck, John, 12-6

Farrell, Ron, 2-20
Ferguson, Glover T. Jr., 5-9, 10-10
Fink, Mitchell A., 2-4
Finklestein, Rich, 6-16
Fischer, Addison M., 7-20
Fisher, Sharon, 6-25, 12-21

Follman, Jeanne, 2-13
Forrester, Tom, 3-26
Foss, W. Burry, 12-15
Fowler, Frederick M., 7-26
Francett, Barbara, 10-25
Francis, Bob, 6-25
Freedman, David, 1-5; 3-1; 11-11, 14
Freund, Mark, 5-6, 11-23
Fried, Louis, 5-5
Friend, David, 3-15, 12-25
Frylinck, George, 11-18
Fullerton, Ken, 3-17

Gage, Glen, 10-13
Garnett, Paul, 8-26
Gaskill, Gari, 11-10
Gause, Donald C., 11-27
Gerhart, Susan, 7-6
Gelperin, Dave, 6-8
Gifford, Robert, 11-9
Gill, Abraham, 1-22
Gill, Sam, 12-15
Ginsburg, Dan, 1-12
Glass, Robert L., 1-3; 5-18; 6-1; 7-11; 8-1, 9; 9-13; 11-8; 12-13
Godnig, Edward, 3-24
Goetz, Martin, 5-18
Goff, Leslie, 1-19, 7-17
Gordon, Michael D., 10-9
Gould, John D., 3-10
Gove, Ronald A., 5-2
Graham, Carol, 10-22
Gray, Jim, 12-24
Greenberg, Donald P., 4-15
Grudin, Jonathan, 7-10
Guldentops, Eric, 7-16

Hacunda, John S., 3-24
Hahn, Harley, 10-6, 11-13
Hale, Melvin, 8-18
Hamilton, Dennis, 6-18
Hamilton, Kevin J., 5-23
Hammer, Katherine, 6-6
Hash, Cindy, 12-2
Hattery, Maxine, 8-25, 12-22
Hawkins, John L., 6-23
Hayes, Ian S., 11-2
Heidkamp, Martha M., 7-19
Henderson, John C., 6-7
Hetzel, Bill, 6-8
Hewett, Julian, 1-2
Highland, Dr. Harold Joseph, 2-16, 6-23
Hinnant, David, 2-21
Hitchcock, Nancy A., 4-13
Hixon, Todd, 1-12
Hodges, Mark, 3-22
Howard, Alan, 2-22
Howard, Phillip, 2-22
Hurwicz, Michael, 2-24
Husmann, H.H., 5-13

Inmon, William H., 6-3
Isaacson, Portia, 2-8

Jaakkola, John E., 5-19
Jacobson, Holly, 1-24, 4-12, 6-3
Jacobsen, John, 12-23
Jain, Amit K., 5-23
James, Mark L., 3-22
Jewitt, Jim, 11-23
Jilovec, Nahid, 3-17
Johnson, Laura K., 7-21

Jones, Capers, 8-10
Joslow, Susan, 3-12
Juneau, Lucie, 9-22

Kador, John, 2-7, 3-13, 10-19
Kalashian, Michael A., 3-16
Kallman, Ernest A., 7-10
Karami, Michael, 9-30
Kashdan, Norman R., 9-4
Kay, Sheryl, 2-6
Keehn, Kent, 5-22
Kelly, Richard V. Jr., 10-27
Kerr, Jim, 1-17
Kerr, James, 2-2, 7-9
Kerr, Susan, 10-20
Keuffel, Warren, 10-8
Khoury, Naim A., 9-8
Kiely, Tom, 1-16, 5-6, 7-3, 9-27
Kiesler, Sara, 11-21
Kincaid, John, 7-18
King, James B. II, 7-2
King, Jonathan, 5-3
King, Julia, 8-22
Kinne, Dan, 5-4
Klein, Theodore P., 9-22
Kliem, Ralph L., 9-23
Knutson, Jef, 2-15, 8-2
Kock, Karl, 4-11
Konstadt, Paul, 4-12, 7-4
Konsynski, Benn R., 1-20
Kotteman, Jeffrey E., 10-9
Krasowski, Michael, 6-6
Krause, Charlotte A., 9-10
Kruys, J.P., 11-15

Laborde, Dominique, 9-6
LaFore, Michael, 6-19
Lamoureaux, Thomas, 11-18
Langer, Maria L., 9-24
Lansman, Gary, 3-7
LaPlante, Alice, 2-6, 8-16, 9-26
Leebaert, Derek, 12-27
Lefkon, Richard G., 4-5
Lettes, Theodore, 3-20
Lewis, Clayton, 3-10
Linden, Susan, 7-17
Lindquist, Christopher, 9-17
Lipner, Dr. Leonard D., 3-14, 4-8
Lissak, Robin I., 9-19
Litsikas, Mary, 10-26
Louderback, Jim, 12-6
Loy, June, 7-27
Lubars, Mitchell D., 5-10
Lucid, Kathy, 7-18
Lupinacca-Rausch, Jean, 1-25
Lyon, Lockwood, 3-5

Madnick, Stuart E., 2-14
Maglitta, Joseph, 9-22
Mallach, Efrem G., 5-20, 12-5
Malone, Thomas W., 11-22
Manicom, Richard, 1-15
Marino, Mario M., 1-8
Martin, Tim, 9-25, 8-17
Martino, Lorenzo, 7-12
Mason, Jim, 9-23
May, Thornton, 7-23
McClure, Carma, 2-13
McConnell, Vicki, 4-11
McCusker, Tom, 8-23
McDole, V.O. (Bud), 10-7
McFarlan, E. Warren, 1-20

McGill, Steve, 4-13
McGregor, Charles, 10-2
McKenzie, Kim M., 8-20
McMullen, John, 6-24, 9-31
Melymuka, Kathleen, 5-12, 6-15, 9-19
Menendez, Doug, 11-12
Menkus, Belden, 2-16, 17; 5-1; 8-25; 11-16
Merkow, Mark, 1-21
Merlyn, Vaughn, 9-5
Mersch, Carol L., 4-7
Meyer, N. Dean, 10-16
Meyer, Gary, 6-26
Miciak, Michael J., 7-25
Miller, Don, 6-19
Miller, Edna Ilyin, 7-27
Millradt, Bob, 1-15
Mills, Harlan D., 7-9, 12-14
Mimno, Pieter R., 3-8
Mitchell, Amanda, 12-3
Moad, Jeff, 10-12
Moffat, Michael, 10-3
Moher, Thomas G., 6-13
Moo, Jonny, 8-5
Mooney, James D., 2-13
Morino, Mario M., 11-3
Morrison, Perry, 3-26
Mosley, Dan, 6-9
Mueller, Robert, 6-17, 9-9
Munoz, Javier, 6-19
Muns, Ronald J., 3-4
Murray, John P., 8-9
Murray, Richard J., 10-17

Nash, Jim, 12-5
Negroponte, Nicholas P., 11-25
Nelson, Michael, 2-23
Neumann, Peter G., 3-13
Nicastro, Suzanne M., 6-28
Nieberlein, Connie, 5-21
Norman, Carol A., 6-14
Norment, Phil, 12-25

O'Leary, Meghan, 1-17, 5-17, 7-4, 9-20
Ono, Rick, 11-1
Oppenheim, Dr. Charles, 5-25
Orr, Ken, 2-12, 11-27
Owen, David P., 12-11
Ozsvath, John, 4-7

Paans, Prof. Dr. Ronald, 7-13
Paddock, Charles E., 3-3
Pallavicini, Max-R, 11-17
Palmer, Richard J., 7-2
Palvia, Prashant C., 12-5
Palvia, Shailendra C., 12-5
Pancari, Denise, 7-24
Park, Pamela, 2-8
Parker, Donn B., 12-1
Parker, Robert, 5-2
Parker, Thornton, 3-20
Pea, Roy D., 10-23
Pelkola, John, 5-22
Perry, William E., 1-14
Phillips, Judith E., 9-1
Pike, Bill, 11-3
Pinella, Paul, 7-21
Pojatina, Nancy, 4-10
Privateer, Peter B., 2-12

Radcliffe, Mark, 9-28
Radding, Alan, 2-9, 7-2, 8-7
Ralston, T.J., 7-6
Redmond-Pyle, David, 7-8
Reibman, Andrew L., 6-5
Reifer, Donald J., 5-8
Reisman, Sorel, 9-18
Rettig, Marc, 1-10, 7-12
Richburg, Joseph B., 10-6
Rifkin, Glenn, 6-18, 9-17
Rhodes, Dusty, 1-23
Ritchie, Ian, 5-24
Roberts, Mary Lou, 1-24, 5-16
Robinson, Michaela A., 11-5
Robson, David J., 9-14
Rockart, John F., 11-22
Rodenberg, Margaret A., 3-6
Rood, Stephen C., 8-19
Rose, Marshall T., 3-24
Rosenberger, Joann, 7-16
Ross, Ronald G., 12-16
Rubin, David, 12-18
Rubin, Dr. Howard, 10-10
Rumbaugh, James, 12-16
Runge, Larry D., 10-5
Rush, Gary R., 8-6

Sanders, G. Lawrence, 1-9
Sarkar, Salil, 10-19
Schaefer, Martha, 7-26
Schlinder, Roger N., 10-18
Schmitt, Tim J., 11-15
Schram, Christof, 9-27
Schrello, Don M., 12-22
Schur, Stephen G., 1-7
Schussel, George, 7-5
Schwab, Susan F., 7-10
Senn, Ann, 7-24
Shain, Mike, 2-21
Shubella, Thomas, 5-2
Siewiorek, Daniel P., 12-24
Silver, Bill, 4-4, 8-13
Singer, Larry M., 4-10
Skupsky, Donald S., 1-26
Sloman, Jeffrey, 10-1
Smiley, Sue, 7-24
Sneed, Harry M., 12-11
Snell, Ned, 8-22, 10-4
SOFTIC, Japan, 9-30
Sommer, Peter, 2-20
Soule, Carson, 2-4
Sproull, Lee, 11-21
Stanley, Nicholas, 12-21
Staples, Geoffrey, 1-12, 8-24
Steinhart, Jim, 1-19
Stengel, Eric, 3-4
Stephenson, Peter, 12-19
Stevens, Johanna M., 12-24
Stickler, Michael J., 4-14
Stockwell, Thomas M., 2-3, 6-26, 10-21
Stokes, Stewart L. Jr., 9-20, 10-17, 11-6
Stone, Edward J., 2-10
Stott, Jack W., 10-9
Sullivan-Trainor, Michael L., 7-1

Talati, Kirit, 1-7
Tandowski, Ben, 6-16
Tannenbaum, Adrienne, 4-12

Tasker, Daniel, 7-11
Taylor, Dave, 2-23
Tayntor, Christine B., 1-6
Tipton, Bob, 7-22
Topper, Andrew, 9-3
Tracz, Will, 5-7
Tucker, Martin W., 7-2

Vacca, John R., 10-23
Van Steenis, Hein, 3-25
Veeraraghavan, Malathi, 6-5

Watson, Richard T., 8-16
Weicker, Reinhold, P., 3-15
Weinberg, Gerald M., 11-27
Weiser, Mark, 11-26
Westra, Glen, 7-15
Wexler, Joanie M., 3-5
Wexler, Steve, 8-24
Williamson, Mickey, 12-7, 8
Wilson, Paul R., 6-13
Winter, Richard, 9-7
Witten, Ian H., 3-22
Wittie, Larry D., 12-20
Wright, Benjamin, 11-18

Yip, Stephen W. L., 9-14
Yourdon, Ed, 1-1, 4-1

Zajac, Bernard P., Jr., 2-1
Zawacki, Robert A., 6-14
Zimmerman, Muriel, 2-15
Zographos, Stellios, 2-25
Zvegintzov, Nicholas, 4-6, 8-4, 9-13, 12-13

SUBJECT

access control software, 5-2
accounting practices in FCIM, 3-20
action programs for teaching, 11-23
AD/Cycle, 1-1, 2-12
AD/Cycle migration, 2-12
AD/Cycle preparation, 2-10
Ada security holes, 10-19
advanced systems development methodology (ASDM), 5-19
agriculture expert systems, 4-13
AI, 10-25
AI systems design tools, 1-8
AI tools in reengineering, 1-8
analytical processing, 6-3
application design, 3-10
application development, 11-10
application software, 2-13
application tuning, 7-26
Applied Software Measurement (ASM), 8-10
architectural applications, 4-15
architectures, 10-13
archival data, 6-3
archive retrieval, 10-7
archiving, 9-8
artificial intelligence, 10-25
AS/400, 6-26
AS/400 Connection Program/6000, 7-22
AS/400 migration, 2-4
AS/400 operation tools, 4-7
ASCII, 10-23
audit information interchange, 6-22
audit tool, 10-19
auditing automated DP systems, 5-3
auditing for disaster planning, 6-20
auditing for fraud, 5-1
auditing LANs, 5-4
auditing networks, 6-21
auditing system development, 11-18
automated computer performance, 6-28
automated help desk operations, 7-3
automated operations, 6-28
automated problem solving, 6-28
automated system performance, 8-20
automatic LAN management, 10-20

bank outsourcing trend, 6-18
bar codes, 12-24
barcode systems, 10-26
benchmarks, 2-21, 3-15
benefits of CASE and 4GLs, 1-3
broadband services, 12-21
business analysis for CASE, 11-9
business impact analysis, 6-20
business management, 9-15
business re-engineering, 3-2

cable characteristics, 6-29, 7-18
capacity management, 1-15, 2-22
capacity planning, 3-14
career paths, 6-28
career planning, 10-13
careers in operations, 6-28
CASE (computer assisted software engineering), 1-2, 10-10
CASE '90 workshop, 5-20
CASE:PM for COBOL, 10-6
CASE reliance on business analysis, 11-9
CASE technology, 9-4
CASE technology survey, 9-1
CASE tools, 1-12
CASE tools evaluation, 9-3
CASE training for end-users, 1-24
centralization/decentralization, 8-16
centralizing computer facilities, 3-1
channel networking, 10-4
chargeback, 10-11
CIM, 1-24
Cleanroom Engineering, 7-9
cleanroom testing, 12-13
client-server architecture, 1-7
client/server software,
client/server systems, 12-6
coding conventions, 11-13
cognitive tools, 1-26, 2-26
co-locating, 2-6
comparative analysis, 9-19
computer aided design (CAD), 8-27
computer-aided network management (CANM), 10-1
computer-aided software engineering (CASE), 10-10
computer-aided writing, 1-26, 2-26
Computer Associates CA90s products, 8-22
computer-based training, 12-23
computer ethics, 3-26
computer graphics, 3-25
computer-integrated fax systems, 3-14
computer-integrated manufacturing (CIM), 1-24, 5-23, 10-25
computer law, 5-25, 9-28
computer performance automation, 6-28
computer performance evaluations, 2-21
computer security, 12-26
computer security newsletter, 5-26
computer security officer, 12-2
computer strategy, 4-11
computers and civilization, 12-27
computers in future, 11-26
configuration management (CM), 1-15
consultant selection, 5-5
consulting practices, 12-4
contingency planning, 7-15, 9-27
continuous process improvement, 9-5
contract programmers, 12-10
controls and security documentation, 12-3
conversion strategies, 12-5
cooperative processing, 6-15, 7-3
copyright law, 9-28
corporate computer strategy, 4-11
corporate databases, 5-15
corporate networks, 1-19
cost control, 11-3
cost-to-fix curves, 4-4
CPU sharing, 6-19
cryptography, 2-20
CTOS, 7-27
customer service, 8-24
customer service strategies, 3-3

data analyst facilitator, 8-6
data center automation, 6-27
data center consolidation, 2-5
data center improvement, 7-2
data collection, 4-13
data communications security, 2-17
data conversion, 6-6
data privacy regulations, 9-26
data providers' liability, 5-25
data recovery, 10-4
data retention for income tax reporting, 4-10
data storage, 11-24
data tools, 8-4
data versus processing tools, 8-4
data warehouse, 6-3
database applications, 5-15
database linking, 8-7
database management, 11-11
database management systems (DBMS), 3-13, 4-5
database systems, 6-2, 12-26
databases, 9-6
datacenter costing, 10-11
datacenter product managers, 10-16
DBMS, 7-12
DB2 application tuning, 7-26
DB2 performance, 7-25
debugging software, 6-13
decentralization/centralization, 8-16
decision support systems (DSS), 10-16
dedicated PC manager, 6-17
Delphax Systems printers, 7-21
Denny's POS system, 9-10
development centers, 2-7
Dial Corp. outsource approach, 11-5
Digital Equipment Corporation (DEC), 8-24
Digital Research DR DOS 5.0, 6-24
disaster plan for networks, 5-2
disaster planning, 9-27, 10-18
disaster recovery, 7-15
disaster vulnerability study, 6-20
distributed computing, 7-4, 6; 12-20
distributed computing environments (DCE), 9-4
distributed databases, 6-6
distributed DBMS, 7-5
distributed operating systems, 7-27
distributed system security, 11-15
distributed systems, 7-3
distributed systems management, 11-2
distributed X.25 networks, 10-3
Document Image Processing (DIP), 2-26
document preparation systems, 10-21
document processing, 12-24
documentation, 6-3, 9-9, 10-11
documentation by users, 2-15
domain tables, 6-7
downsizing, 6-16, 9-22, 10-6, 11-4
downsizing databases, 6-16
downsizing midrange-to-workstations, 12-10
downtime manual system, 12-9
DR DOS 5.0, 6-24
dual power UPS, 10-12

economical IS management, 9-22
EDI, 1-16; 3-16; 7-19, 20
EDI auditability, 3-17
EDI international standards, 3-17
EDI legal safeguards, 11-18
EDI security, 1-16, 5-2, 9-26
EIS (executive information systems), 3-12
EIS development, 12-25

electrical power supply protection, 3-6
electronic data interchange (EDI), 1-16; 3-16; 7-19, 20
electronic data processing anecdotes, 11-27
Electronic Document Automation (EDA), 7-20
electronic safeguards, 7-20
e-mail, 11-19
employee adaptability, 2-9
employee performance objectives, 10-13
employee performance review, 3-5
encryption, 2-20
end-user CASE training, 1-24
end-user training, 6-18
Enterprise Alliance (IBM), 1-5
Enterprise Solution, 5-23
enterprise systems integration, 6-4
enterprise-wide online integration, 1-7
ethics in computing, 12-5
European Community networks, 11-18
executive information facility (EIF), 5-5
executive information systems (EIS), 1-21; 3-12, 15; 7-21
expert systems, 3-21, 4-12, 7-24, 10-27

facilitated data modeling, 8-6
fax, 3-14
fiber cabling, 8-23
fiber optic repair, 5-22
fiber optics, 5-23
financial network, 7-16
fire and flood safety, 11-17
fire protection products, 1-25
flexible computer-integrated manufacturing (FCIM), 3-20
formal methods, 7-6, 8
formal specification languages, 7-8
formal vs. heuristic methods, 5-18
4GLs, 1-12
fraud by employees, 5-1
fuzzy logic, 5-18

Georgia Tech Material Handling Research Center, 3-22
global communications networks, 1-17
group decision support systems (GDSS), 10-16
groupware etiquette, 3-6
GSA system alternatives, 11-4

hacker control, 11-16
Halon phaseout, 1-25
health care automation, 9-10
help desks, 7-3, 11-3
help desk automation, 3-4
high-availability systems, 12-24
high-performance computing, 7-22
human resource systems, 10-22
human resources integrated systems, 11-9
hybrid expert networks, 3-21
hybrid systems, 8-16
hypermedia information search, 5-24

IBM AD/Cycle, 11-10
IBM AS/400, 6-26
IBM AS/400-RS/6000, 7-22
IBM/Microsoft ties, 6-23
IBM's CIM Architecture, 1-24
IBM's Repository Manager, 2-12
IBM's SystemView, 1-8
ICASE (Integrated CASE), 10-10
ill-structured data tool, 10-9
image processing, 12-24
Image Solutions Review (ISR), 9-23
imaging, 7-23, 9-23
industrial design simulation, 9-30
information engineering (IE), 12-16
information engineering styles, 6-4
information management, 7-2
information partnerships, 1-20
information presentation, 9-7
information search, 5-24
information security, 12-1
information security and credibility, 2-18
information security mechanism evaluation, 8-25
information servers, 9-7
information systems management, 9-21
information systems planning, 1-9, 2-2
information technology, 9-30
information technology as strategic asset, 3-2
Information Technology Audit Development Center (ITADC), 6-22
insider computer crimes, 5-1
instructional materials, 9-24
instructor evaluation techniques, 8-20
Integrated Services Digital Network (ISDN), 10-3
integrated systems, 5-17
integrators, 2-10
intelligent systems, 10-25
interactive graphics, 2-22
interactive systems, 7-10
interconnected LANs, 8-22
interface design, 4-1, 3
interface design usability, 4-2
international data accuracy, 5-25
International Information Security Foundation (IISF), 12-3
ion deposition printers, 7-21
IRS data retention rules, 4-10
IS architecture, 10-13
IS/business mentoring, 9-20
IS career planning, 10-17
IS education, 11-23
IS image management, 3-3
IS internal marketing, 12-4
IS investment valuation, 7-1
IS management, 1-6
IS management issues, 8-16
IS marketing techniques, 11-1
IS operation analysis, 9-19
IS skills bank, 3-5
ISDN (Integrated Services Digital Network), 7-17
iterative design, 3-10
ITS (iterative transaction systems), 3-10

J.C. Penney, 5-17
JAD (joint application design), 11-11
James storage and access manager, 10-9
Japan's computer program registration, 9-30
JIT manufacturing, 4-14
joint application design (JAD), 3-9

knowledge-based systems, 10-25

LAN audits, 5-4
LAN environments, 7-17
LAN interconnections, 8-22
LAN management software, 10-20
LAN planning, 4-12
LAN users, 3-18
LAN/WAN integration, 5-22
LANs, 12-20
leasing, 6-19, 8-17
legal issue of optical disc records, 1-26
legal rights, 9-28
lights-out audit, 5-3
Lightship EIS, 7-21
Lilac, 10-21
literate programming, 9-12
local area networks (LANs), 3-25, 5-6, 11-23
local area networks (LANs) design, 2-25
logical connectivity, 1-7

mainframes to PCs/LANs, 6-16
maintainability, 5-13
maintenance, 1-6
maintenance tools, 5-12
management information center (MIC), 1-17
managing LANs, 7-17
managing software people, 10-14
manual backup emergency system, 12-9
Manufacturers Hanover Trust re-centralization, 3-1
manufacturing automation, 3-20
manufacturing change control, 1-22
manufacturing systems integration, 1-23
manufacturing technology, 3-22
measuring business, 9-15
mentoring, 9-20
MetaSpec, 7-8
Microsoft's Windows, 6-23
midrange emulation products, 12-10
midrange-to-workstation downsizing, 12-10
migration, 2-3
migration projects, 12-8
migration to AS/400, 2-4
Motorola quality project, 9-17
MRP II, 5-23
multimedia, 10-23, 24; 12-23
multimedia computing, 5-24
multi-media data bases, 2-26
multimedia projects, 9-18
multiple AS/400 configurations, 12-16
multivendor networks, 6-25
MVS security, 9-27
MVS security audit, 7-13

NCR 3125 data entry notepad, 11-24
netware, 6-25
network auditing, 6-21
network cable selection, 6-29, 7-18
network disaster recovery plans, 5-2
network management, 10-1, 12-18
network management systems, 10-2
network products, 11-25
network security, 12-19
network testing and trouble reporting, 10-3
network transparency, 2-23
networks, 2-24; 6-25; 11-19, 21, 22; 12-20
networks in European markets, 11-18

networks worldwide, 1-17
The New England EIS, 3-12
The New England's system revamping, 9-17
next-generation database systems, 12-26
90s predictions, 2-1
non-profit organization IS, 9-22
notepad data input, 11-24
Novell Network virus, 2-16

object orientation (OO), 7-11, 10-7
object-oriented database technology, 7-12
object-oriented databases, 12-17
object-oriented design, 12-18
object-oriented methodology, 12-16
object-oriented programming, 12-16
online enterprise integration, 1-7
OOP and OOM, 12-16
open systems, 12-14
open systems interconnection (OSI), 10-4
open-systems standards, 11-14
operating system security, 9-27
operating systems, 6-24, 25; 8-24; 11-13
optical disc records legality, 1-26
optical fiber splicing, 5-22
optical storage, 10-7
organizational learning, 8-15
OS/2 2.0, 8-24
outsource decisions, 12-7
outsource vendors, 12-8
outsourcing, 11-4, 5
outsourcing software development, 8-5

Password Coach, 2-16, 6-23
password security, 11-15
passwords, 6-23
patent law, 9-28
PC development tools, 5-16
PC-host linkage, 12-21
PC maintenance, 8-19
PC management, 6-17
PC support service, 2-8
PCs in corporate networks, 1-19
performance measurement, 3-15
performance report preparation, 4-8
personal computer purchasing, 1-19
portability, 2-13
Portable NetWare, 6-25
POS system design, 9-10
"post-delivery" review, 8-9
printers, 7-21
privacy rights, 9-26
problem management systems, 1-21
process metrics, 6-9
PRODOC re/NuSys Workbench, 1-4
product positioning, 3-3
productivity in software development, 2-8
professional development, 10-17
Proficere, 3-5
progressive development, 10-5
project management, 2-10
project management skills, 9-23
prototyping, 3-7, 5-21, 6-7, 12-15
public key cryptography, 7-20

quality application software, 2-8
quality assurance, 9-12
quality in information technology, 10-17
quality in MIS, 1-14
quality programming, 9-17
quality reporting, 4-8
quality software, 1-14

rapid application development (RAD), 3-8, 7-9, 12-15
Rapid Development Methodology, 12-25
Reactive Keyboard, 3-22
recentralization, 8-16
re-centralizing computer facilities, 3-1
reduced emission monitors, 8-25
Reduced Instruction Set Computing (RISC), 5-20
reengineering, 1-4, 5-13, 6-11, 12-11
re-engineering business processes, 3-2
re-engineering costs, 12-11
re-engineering defined, 4-6
reengineering with AI tools, 1-8
registration of computer programs in Japan, 9-30
relational databases, 9-6
reliability modeling, 6-5
repositories, 2-12
repository design principles, 2-11
repository enablement, 2-12
Repository Manager, 2-12
repository standards, 2-13
requirements definition, 7-9
restaurant POS system, 9-10
retail expert systems, 7-24
retailing system, 5-17
reuse and reengineering of software, 5-9
reverse engineering, 4-6, 12-12
rightsizing, 12-15
RPG regeneration, 3-16
RPM3 software measurement paradigm, 8-13

S/36 migration alternatives, 2-3
S/36EE, 2-4
safe computer rooms, 11-17
secure distributed systems, 11-15
secure networks, 12-19
secure passwords, 11-15
securing company data, 2-20
security, 7-20
security awareness, 10-18
security audit, 7-13
security for UNIX systems, 12-4
security foundation, 12-3
security holes in Ada, 10-19
security in EDI, 5-2
security in MVSs, 9-27
security measuring, 8-25
security of EDI, 9-26
security of information, 12-1
security on networks, 2-21
security policy document, 2-20
security risk assessment, 8-26
security weaknesses in telecommunications, 2-16
self-directed IS work groups, 6-14
self-managed teams, 2-6
self-managed work teams, 11-6
self-managing teams, 11-12
service bureaus, 6-18
simulation models in 3-D, 9-30
Six Sigma, 9-17
small business computers, 7-24
smart cards, 2-21
software configuration management (SCM), 10-8
software cost-to-fix, 4-4
software costs survey, 5-6
software development, 1-12, 2-14, 9-5
software development centers, 1-18
software development on PCs, 5-16
software development outsourcing, 8-5
Software Engineering Institute (SEI), 8-9
software engineering methods, 5-18
software investment portfolio, 11-2
software logjam, 1-12
software maintainability, 5-13
software maintenance, 1-4, 6; 6-11
software maintenance tools, 6-13
software management, 8-15
software management technology, 9-13
software maturity measurement, 8-9
software measurement, 8-10, 13
software measures, 1-8
software metrics, 5-11, 11-10
software modular development, 12-15
software productivity, 1-12
software quality, 1-14, 11-8
software quality assurance, 1-13
software quality control, 7-9
software quality improvement, 9-12
software productivity, 6-1
software project review, 8-9
software reading vs. software writing, 8-1
software recovery and reuse, 5-10
software reuse, 5-7, 8, 11
software reuse and reengineering, 5-9
software selection, 7-10
SQA (software quality assurance), 1-13
SQL Server, 9-31
software support, 5-26
software team, 1-10
software technology benefits, 1-3
software testing, 2-15, 6-9, 8-2
software testing issues, 6-8
software testing management, 12-13
software testing technology, 6-10
software version reconciliation, 10-19
spread spectrum RF, 4-13
standards, 11-13
standards for repositories, 2-13
statistical process control, 9-13
strategic database planning, 1-9
strategic planning, 6-14
sunset law for systems, 8-18
SuperSync personality analyzer, 6-26
SVC security vulnerability, 9-27
SWIFT, 7-16
system backlog, 11-7
system conversion, 2-3
system design, 3-10, 25; 7-6; 10-5
system development auditing, 11-18
system downsizing, 11-4
system engineering metrics, 6-9
system enhancement, 1-12
system failure manual backup, 12-9
systems integration, 1-5, 2-10
System Management Tool (SMT), 10-19
system re-design, 9-17
system reliability, 2-20

system upgrading, 1-5
Systems Application Architecture (SAA), 10-21
systems design with AI, 1-8
systems development, 11-7
systems integrators, 2-10
systems management strategy, 1-8
system-to-business transfers, 2-6

T1 services, 2-24
TCP/IP, 3-24, 12-21
team approach to requirements definition, 7-9
team management, 6-14
team software development, 10-8
technical audit, 7-13
technical management selection, 6-17
telecommunication software, 8-18
telecommunications, 11-23, 12-22
telecommunications insecurity, 2-16
telecommunications security, 2-17
telecommuting, 9-20
test manager, 12-13
testing, 2-15
testing during design, 7-12
third generation database systems, 6-2
3-D Scan, 4-4
3-D simulation, 9-30
Total Change Control (TCC) systems, 1-22
TR/46 ECMA, 11-15
trainer education, 8-20
training, 7-26
training end-users in CASE, 1-24
training and etiquette for groupware, 3-6
training improvement, 6-18
training materials, 9-24
training program marketing, 12-22
training publication, 12-23
training strategy, 9-25
training techniques, 12-23
typing aids, 3-22

underperforming IS, 7-2
Unicode, 10-23
uninterrupted power supply (UPS), 3-6
UNIX, 2-23, 11-13
Unix myths, 4-7
UNIX operating system, 11-12
UNIX security, 12-4
usability in interface design, 4-2
user conflict resolution, 12-6
user interface management systems (UIMS), 9-14
user interface systems, 9-14
user request management, 4-10
user satisfaction, 11-8
UPS vulnerability, 10-12

VDT emissions safety, 8-25
VDT visual stress, 3-24
vendor liability, 7-24
vendor support, 3-4
versatility in IS employees, 2-9
version control systems, 10-9
Version Merger, 10-19
videotex, 12-22
virus prevention, 4-5
virus vulnerability, 7-16
visual stress, 3-24
voice response technology, 9-19

weak password prevention, 2-16
window user interfaces, 9-14
Windows 3.0, 3-15
work flow analysis, 8-26
workstation technology, 2-25

year 2000 calendar/clock problem, 3-13

zero-defect software, 7-9

REFERENCES

The staff of Data Processing Digest regularly monitors an average of 150 computer, trade, educational, scientific, and business management periodicals for appropriate articles to digest each month. The list of periodicals varies widely from year to year, and even from month to month, as new periodicals appear, and others cease publication or change their editorial direction. Every June issue and the year-end annual supplement include all the publishers' addresses for your convenience. During other months of the year, only the periodicals referenced in that issue are given. All addresses which do not include a country are in the U.S.

Please request copies of originals from the publisher of the periodical. Do not write to *Data Processing Digest*, as we do not copy or reprint, and your request will be delayed. Books should be ordered from their publishers or from a local technical book store.

American Programmer, 161 W. 86th St., New York, NY 10024-3411

Australian Computer Journal, PO Box 319, Darlinghurst, NSW 2010, Australia

Banking Software Review, International Computer Programs, Inc., 9100 Keystone Crossing, Ste. 200, Indianapolis, IN 46240

Canadian DataSystems, Maclean-Hunter Ltd., 777 Bay St., Toronto M5W 1A7, Ontario, Canada

Capacity Management Review, Applied Computer Research, PO Box 9280, Phoenix, AZ 85068-9280

CASE Outlook, 11830 SW Kerr Parkway, Suite 315, Lake Oswego, OR 97035

Chief Information Officer Journal, Faulkner & Gray, Inc., 106 Fulton St., New York, NY 10038

CIO: The Magazine for Information Executives, PO Box 9208, Framingham, MA 01701-9208

Communications News, 2504 N. Tamiami Trail, Nokomis, FL 34275

Communications of the ACM, 11 W. 42nd St., New York, NY 10036

Computer, IEEE, 10662 Los Vaqueros Ci., Los Alamitos, CA 90720

Computer Audit News and Developments, PO Box 81-151, Wellesley Hills, MA 02181-0001

Computer Audit Update, Elsevier Advanced Technology Publications, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*

Computer Communications, Butterworth-Heinemann Ltd, Linacre House, Jordan Hill, Oxford, OX2 8DP, England

Computer Fraud & Security Bulletin, Elsevier Advanced Technology Publications, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*

Computer Graphics Forum, Elsevier Science Publishers B.V., PO Box 211, 1000 AE Amsterdam, The Netherlands

Computer Language, Miller Freeman Publications, 600 Harrison St., San Francisco, CA 94107

Computer Security, Auditing, and Controls, Management Advisory Publications, PO Box 81151, Wellesley Hills, MA 02181-0001

Computer Security Digest, Computer Protection Systems, 150 North Main St., Plymouth, MI 48170

Computers & Security, Elsevier Advanced Technology, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*

Computers In Industry, Elsevier Science Publishers B.V., PO Box 1991, 1000 BZ Amsterdam, The Netherlands

Computerworld, PO Box 9171, Framingham, MA 01701-9171

Contingency Planning & Recovery Journal, PO Box 81151, Wellesley Hills, MA 02181-0001

Customer Care, Software Strategies Inc., 6 Calvin Rd., Weston, CT 06883

Data Base Newsletter, 31 State St., Suite 800, Boston, MA 02109

Data Based Advisor, 4010 Morena Blvd., Suite 200, San Diego, CA 92117

Data Entry Awareness Report, Management Information Corp., PO Box 5062, Cherry Hill, NJ 08034-5062

Data Training, Weingarten Publications, 38 Chauncy St., Boston, MA 02111-2369

Database & Network Journal, A.P. Publications Ltd., 351 City Rd., London EC1V 1LR, England

Database Programming & Design, Miller Freeman Publications, 600 Harrison St., San Francisco, CA 94107

Datacenter Manager, International Computer Programs, Inc., 9100 Keystone Crossing, Suite 200, Indianapolis, IN 46240

Datamation, 275 Washington St., Newton, MA 02158-1630

DBMS, M & T Publishing, Inc., 501 Galveston Dr., Redwood City, CA 94063

EDI In Finance, Elsevier Advanced Technology Publications, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*

The EDP Auditor Journal, EDP Auditors Foundation, PO Box 88180 Carol Stream, IL 60188-0180

EDPACS, Auerbach Publishers, One Penn Plaza, New York, NY 10019

Financial & Accounting Systems, Auerbach Publishers, One Penn Plaza, New York, NY 10019

Financial Technology Insight, Elsevier Advanced Technology Publications, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*

The Furrow, John Deere & Co., Moline, IL 61265-8098

Harvard Business Review, Harvard Business School, Boston, MA 02163

I & CS, Chilton Co., Chilton Way, Radnor, PA 19089

IBM Journal of Research and Development, IBM Corporation, Armonk, NY 10504

IBM Systems Journal, IBM Corporation, Armonk, NY 10504

IEEE Computer Graphics & Applications, 10662 Los Vaqueros Ci., Los Alamitos, CA 90720-1264

IEEE Design & Test of Computers, 10662 Los Vaqueros Ci., Los Alamitos, CA 90720-1264

IEEE Expert, 10662 Los Vaqueros Ci., Los Alamitos, CA 90720-1264

IEEE Micro, 10662 Los Vaqueros Ci., Los Alamitos, CA 90720-1264

IEEE Software, 10662 Los Vaqueros Ci., Los Alamitos, CA 90720-1264

Industrial Engineering, 25 Technology Park/Atlanta, Norcross, GA 30092

INFOR, Journal Dept., University of Toronto Press, 5201 Dufferin St., Downsview, Ont. M3H 5T8, Canada

Information Center Quarterly, Weingarten Publications, 38 Chauncey St., Boston, MA 02111-2369

Information Executive, Data Processing Management Association, 505 Busse Highway, Park Ridge, IL 60068-3191

Information & Management, Elsevier Science Publishers, PO Box 1991, 1000 BZ, Amsterdam, The Netherlands

Information Management Report, Elsevier Advanced Technology, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*

Information Retrieval & Library Automation, Lomond Publications, Inc., PO Box 88, Mt. Airy, MD 21771

Information Services & Use, Elsevier Advanced Publications, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*

Information & Software Technology, Butterworth-Heinemann Ltd., Linacre House, Jordan Hill, Oxford OX2 8DP, England

Information Strategy: The Executive's Journal, Auerbach Publishers, One Penn Plaza, New York, NY 10019

Information Systems Management, Auerbach Publishers, One Penn Plaza, New York, NY 10019

InTech, P.O. Box 12277, Research Triangle Park, NC 27709

International Computer Law Adviser, Law & Technology Press, PO Box 3280, Manhattan Beach, CA 90266

International Spectrum, IDMB Inc., 10675 Treena St., Suite 103, San Diego, CA 92131

I/S Analyzer, United Communications Group, 11300 Rockville Pike, Suite 1100, Rockville, MD 20852-3030

Journal of Management Information Systems, M.E. Sharpe Inc., 80 Business Park Dr., Armonk, NY 10504

Journal of Quality Assurance Institute, 7575 Dr. Phillips Blvd., Suite 350, Orlando, FL 32819

Journal of Software Maintenance—Research & Practice, John Wiley & Sons Ltd., Baffins Lane, Chichester, Sussex PO19 1UD, England

Journal of Software—Practice & Experience, John Wiley & Sons Ltd., Baffins Lane, Chichester, Sussex PO19 1UD, England

Journal of Systems Management, 1433 W. Bagley Road, Berea, OH 44017

LAN Magazine, Miller Freeman Publications, 600 Harrison St., San Francisco, CA 94107

LAN Technology, M & T Publishing, 501 Galveston Dr., Redwood City, CA 94063

Management Accounting, 10 Paragon Dr., Montvale, NJ 07645-1760

Manufacturing Systems, Hitchcock Publishing Co., 191 S. Gary Ave., Carol Stream, IL 60188-2292

Modern Materials Handling, Cahners Publishing Co., 275 Washington St., Newton, MA 02158-1630

Modern Office Technology, Penton Publishing Inc., 1100 Superior Ave., Cleveland, OH 44114

NCSA News, National Computer Security Association, Suite 309, 4401-A Connecticut Ave., NW, Washington, DC 20015

Network Monitor, Elsevier Advanced Technology Publications, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*

The Office, 1600 Summer St., Stamford, CT 06905

Privacy Journal, PO Box 28577, Providence, RI 02908

Research Horizons, Georgia Institute of Technology, Research Communications Office, 223 Centennial Research Bldg., Atlanta, GA 30332

SAA Age, Nims Associates, 12200 Ford Rd., Suite 220, Dallas, TX 75234-7264

Scientific American, 415 Madison Ave., New York, NY 10017

Security, Cahners Publishing, PO Box 5080, Des Plaines, IL 60018-5080

Sloan Management Review, Sloan School of Management, M.I.T., 1 Amherst St., E40-292, Cambridge, MA 02139

Software Maintenance News, 141 St. Marks Pl. Suite 5F, Staten Island, NY 10301

Software—Practice & Experience, John Wiley & Sons Ltd., Baffins Lane, Chichester, Sussex PO19 1UD, England

The Software Practitioner, Computing Trends, PO Box 213, State College, PA 16804

Software Protection, Law & Technology Press, PO Box 3280, Manhattan Beach, CA 90266-3280

Software Quality World, ProQual, Inc., PO Box 337, Medfield, MA 02050-0003

System Builder, International Computer Programs, Inc., 9100 Keystone Crossing, Suite 200, Indianapolis, IN 46240

System Development, Applied Computer Research, PO Box 82266, Phoenix, AZ 85071-2266

Systems 3X/400, 950 Lee St., Des Plaines, IL 60016

3X/400 Information Management, Duke Corp., 221 E. 29th St., Loveland, CO 80538

UNIX Review, Miller Freeman Publications, 600 Harrison St., San Francisco, CA 94107

Wall Street Journal, 200 Liberty St., New York, NY 10281

*Alternate address: 655 Avenue of the Americas, New York, NY 10010